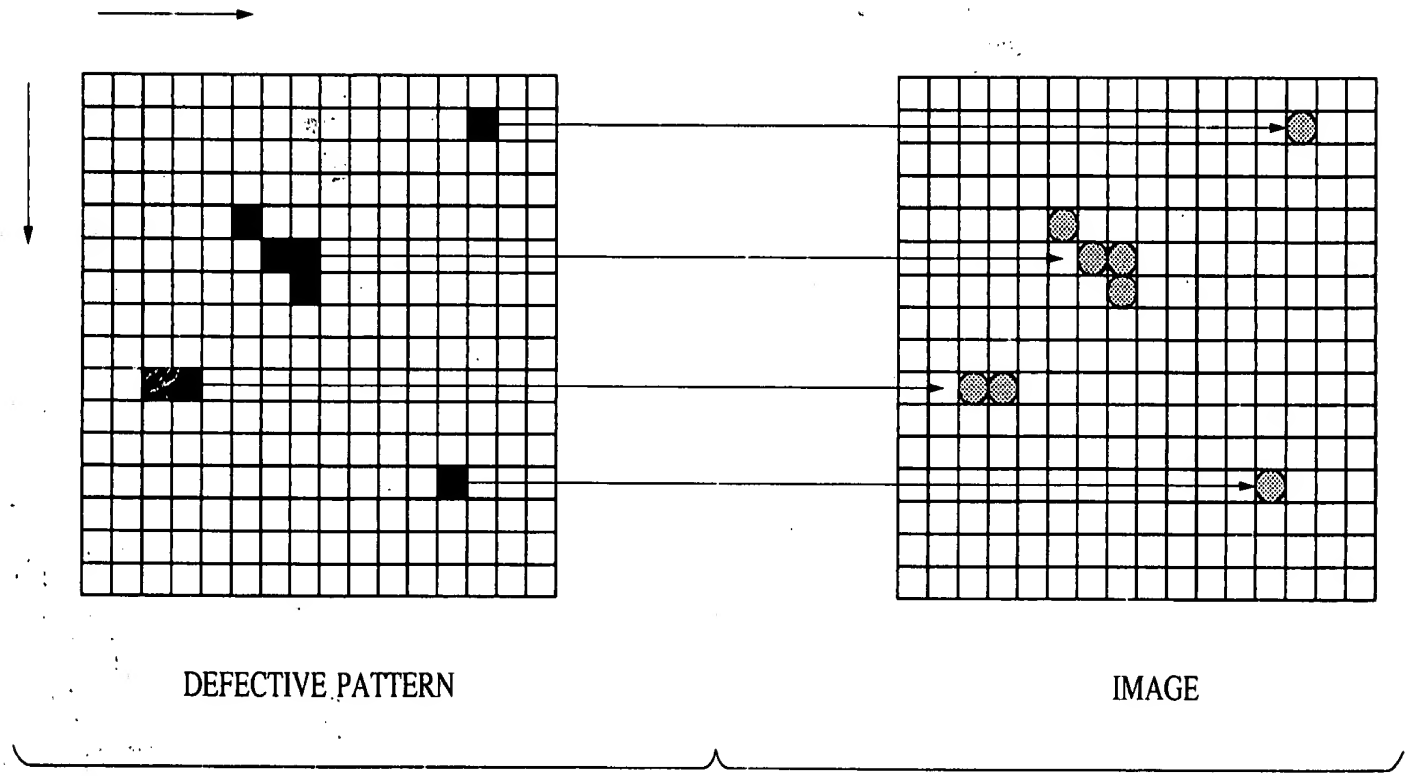


FIG. 1

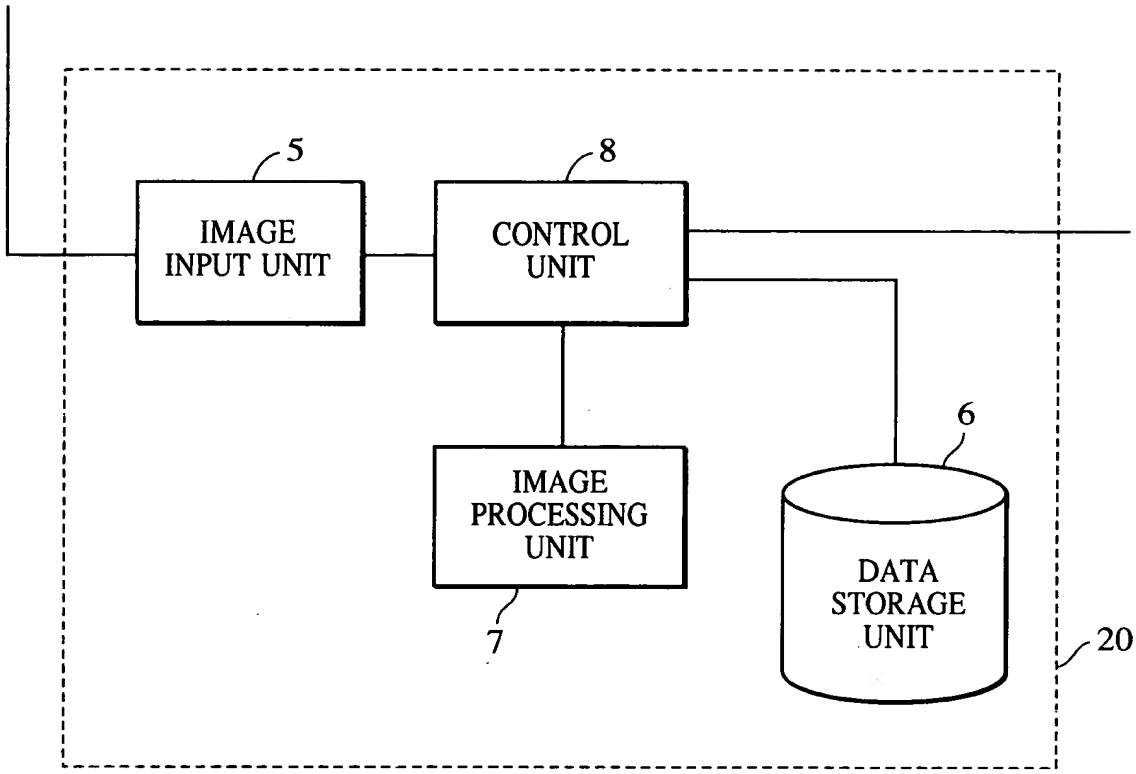

5
8
IMAGE INPUT UNIT
CONTROL UNIT
6
IMAGE PROCESSING UNIT
7
DATA STORAGE UNIT
20

FIG. 2

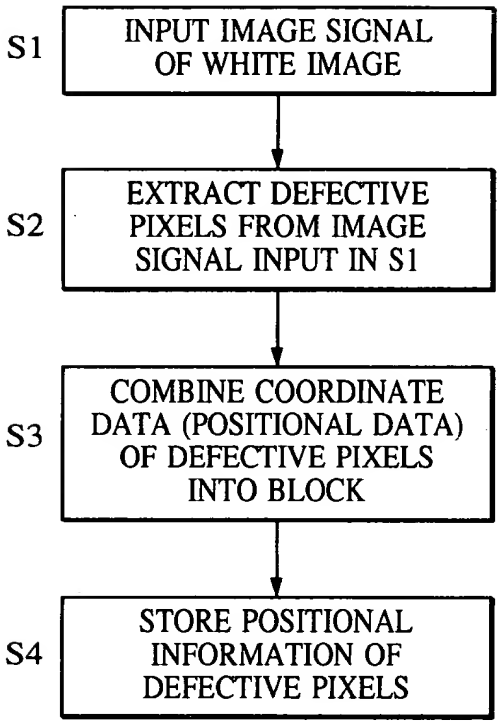

S1
INPUT IMAGE SIGNAL OF WHITE IMAGE
S2
EXTRACT DEFECTIVE PIXELS FROM IMAGE SIGNAL INPUT IN S1
S3
COMBINE COORDINATE DATA (POSITIONAL DATA) OF DEFECTIVE PIXELS INTO BLOCK
S4
STORE POSITIONAL INFORMATION OF DEFECTIVE PIXELS

FIG. 3

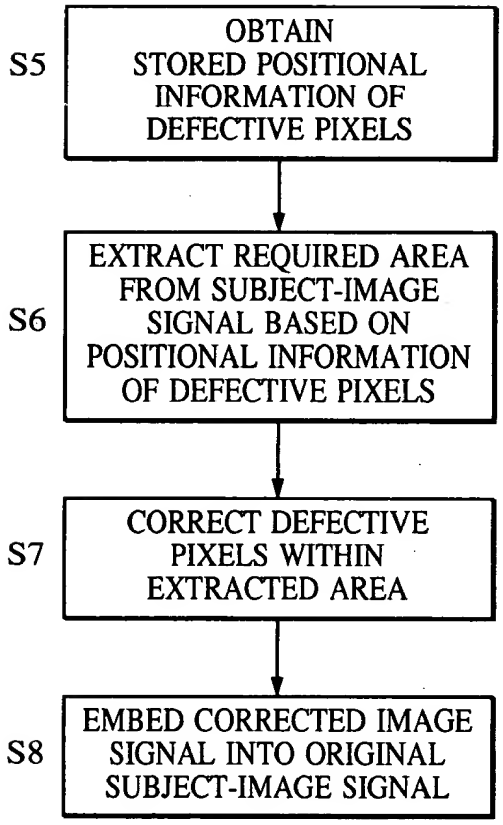

S5
OBTAIN STORED POSITIONAL INFORMATION OF DEFECTIVE PIXELS
S6
EXTRACT REQUIRED AREA FROM SUBJECT-IMAGE SIGNAL BASED ON POSITIONAL INFORMATION OF DEFECTIVE PIXELS
S7
CORRECT DEFECTIVE PIXELS WITHIN EXTRACTED AREA
S8
EMBED CORRECTED IMAGE SIGNAL INTO ORIGINAL SUBJECT-IMAGE SIGNAL

FIG. 4

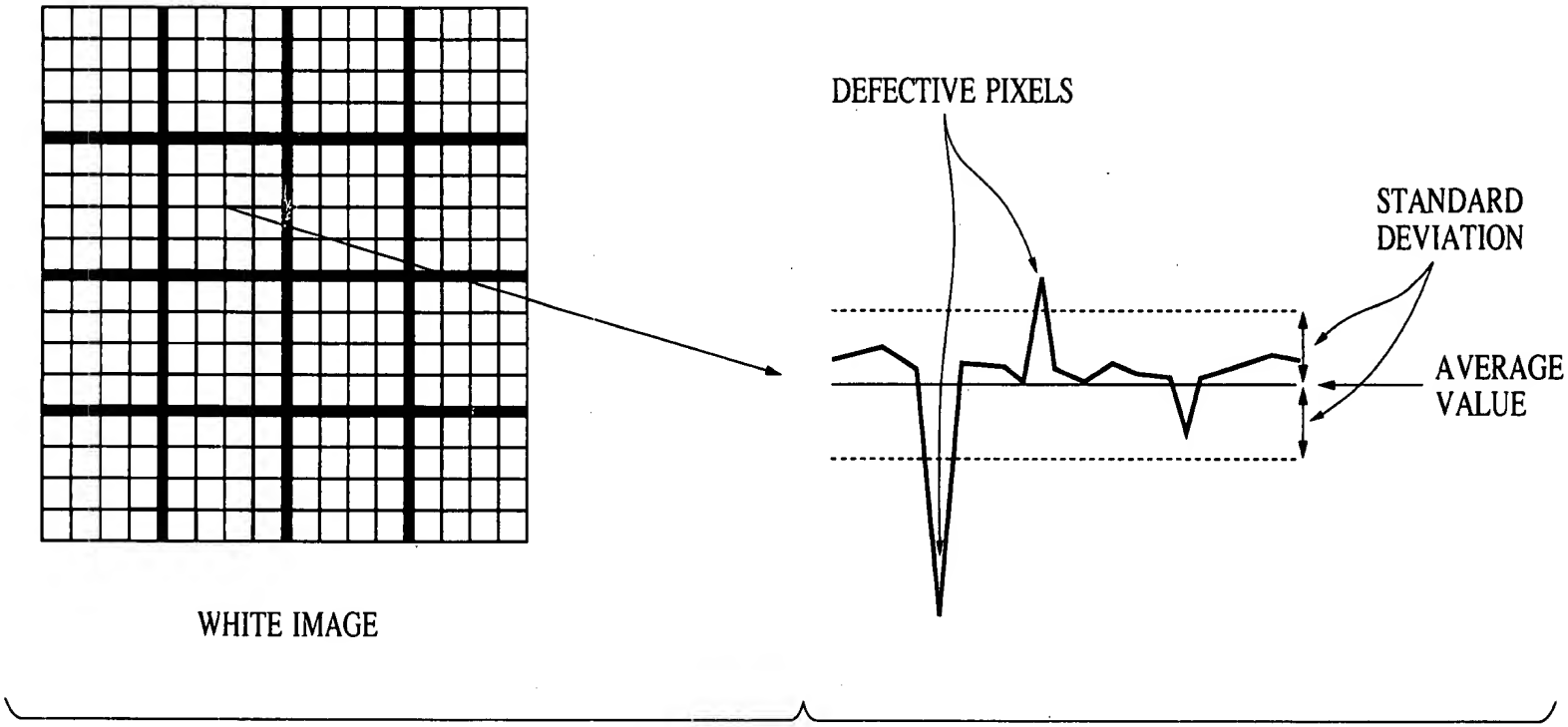

DEFECTIVE PIXELS
STANDARD DEVIATION
AVERAGE VALUE
WHITE IMAGE

FIG. 5

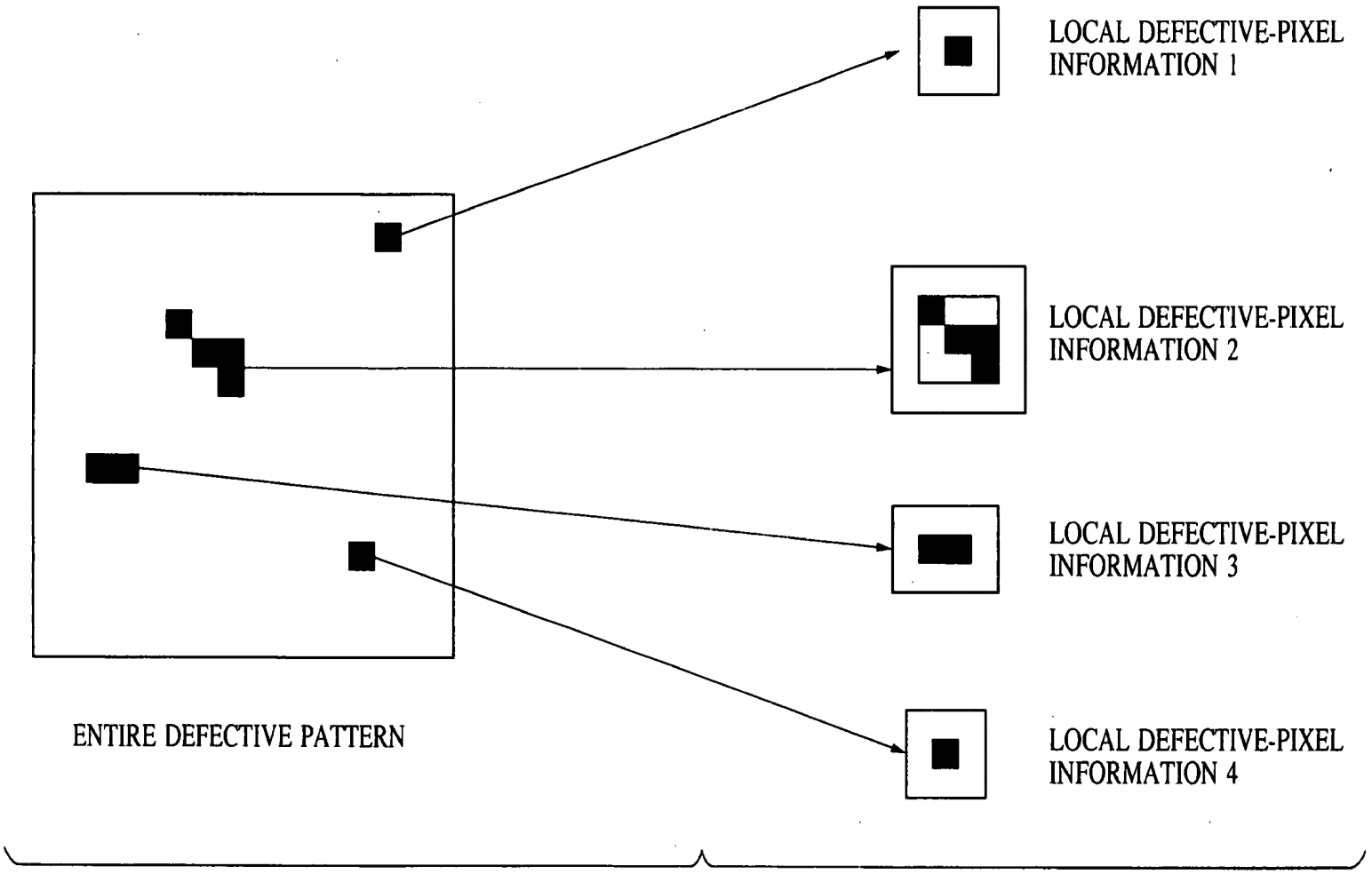
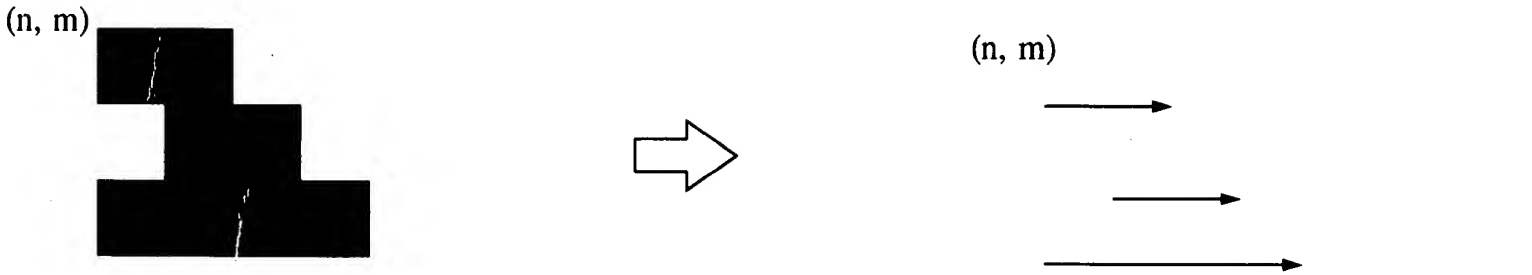

LOCAL DEFECTIVE-PIXEL INFORMATION 1
LOCAL DEFECTIVE-PIXEL INFORMATION 2
LOCAL DEFECTIVE-PIXEL INFORMATION 3
LOCAL DEFECTIVE-PIXEL INFORMATION 4
ENTIRE DEFECTIVE PATTERN

FIG. 6



POSITIONAL INFORMATION OF DEFECTIVE PIXELS

(n, m)
(n+1, m)
(n+1, m+1)
(n+2, m+1)
(n, m+2)
(n+1, m+2)
(n+2, m+2)
(n+3, m+2)

POSITIONAL INFORMATION OF DEFECTIVE PIXELS REPRESENTED BY RUN-LENGTH CODE

(n, m) L2
(n+1, m+1) L2
(n, m+2) L4

FIG. 7

DOCKET ALARM

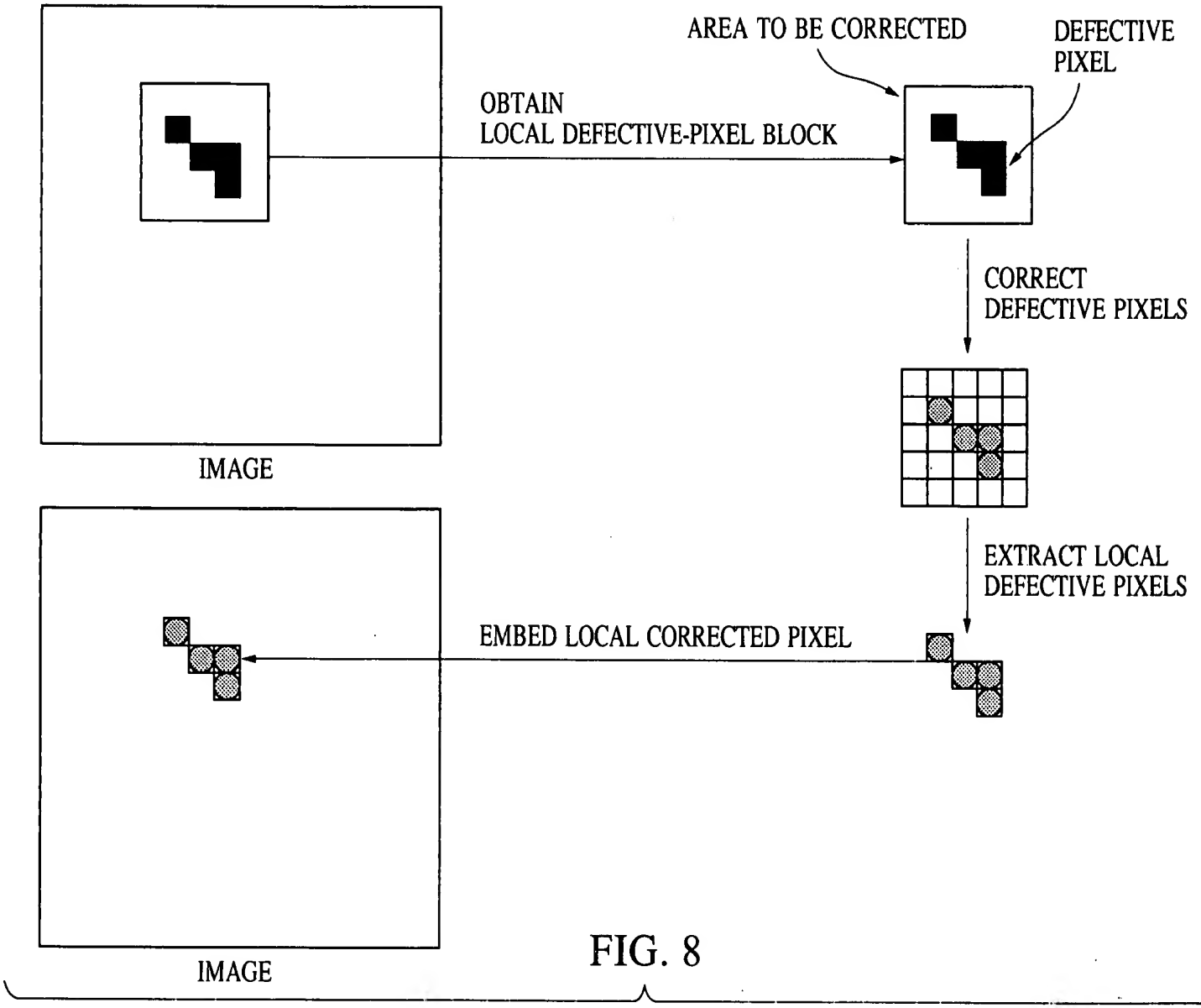


FIG. 8

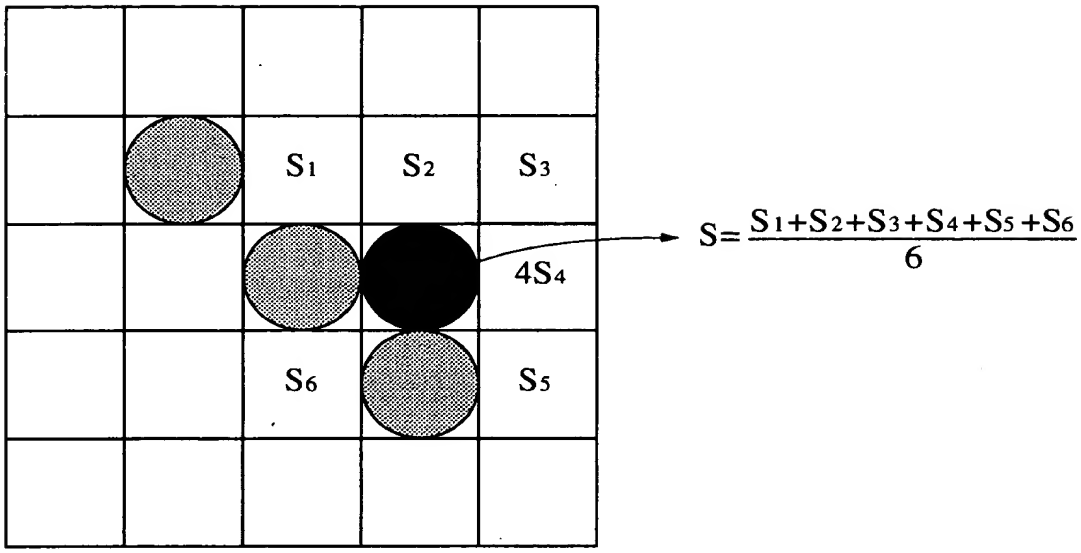


FIG. 9

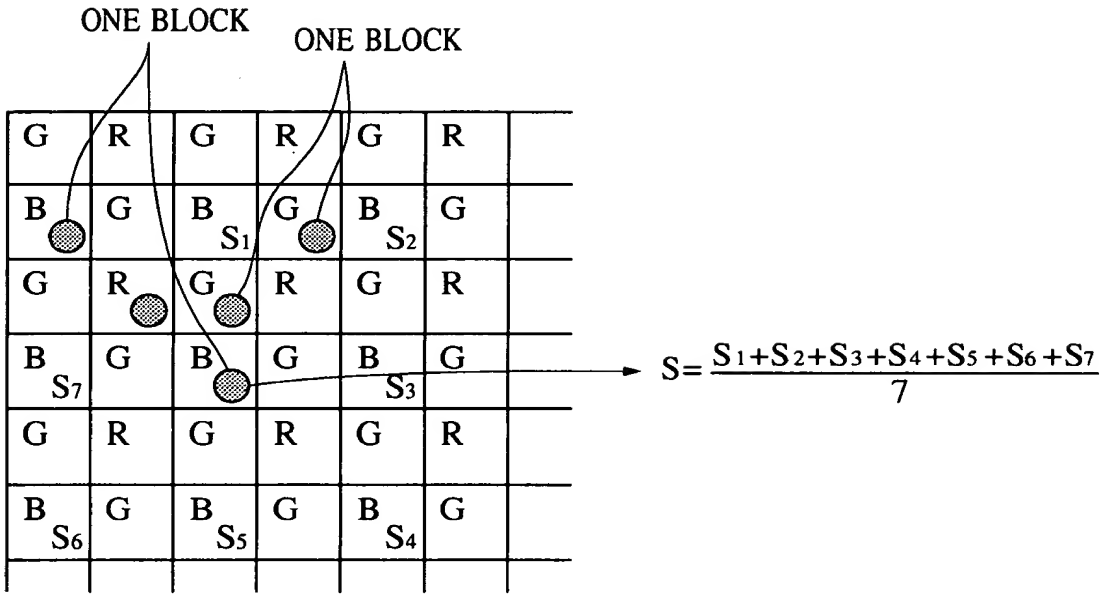

ONE BLOCK
ONE BLOCK
G R G R G R
B G B G B G
S1 S2
G R G R G R
B G B G B G
S7 S3
G R G R G R
B G B G B G
S6 S5 S4
S= S1+S2+S3+S4+S5+S6+S7 / 7

FIG. 10

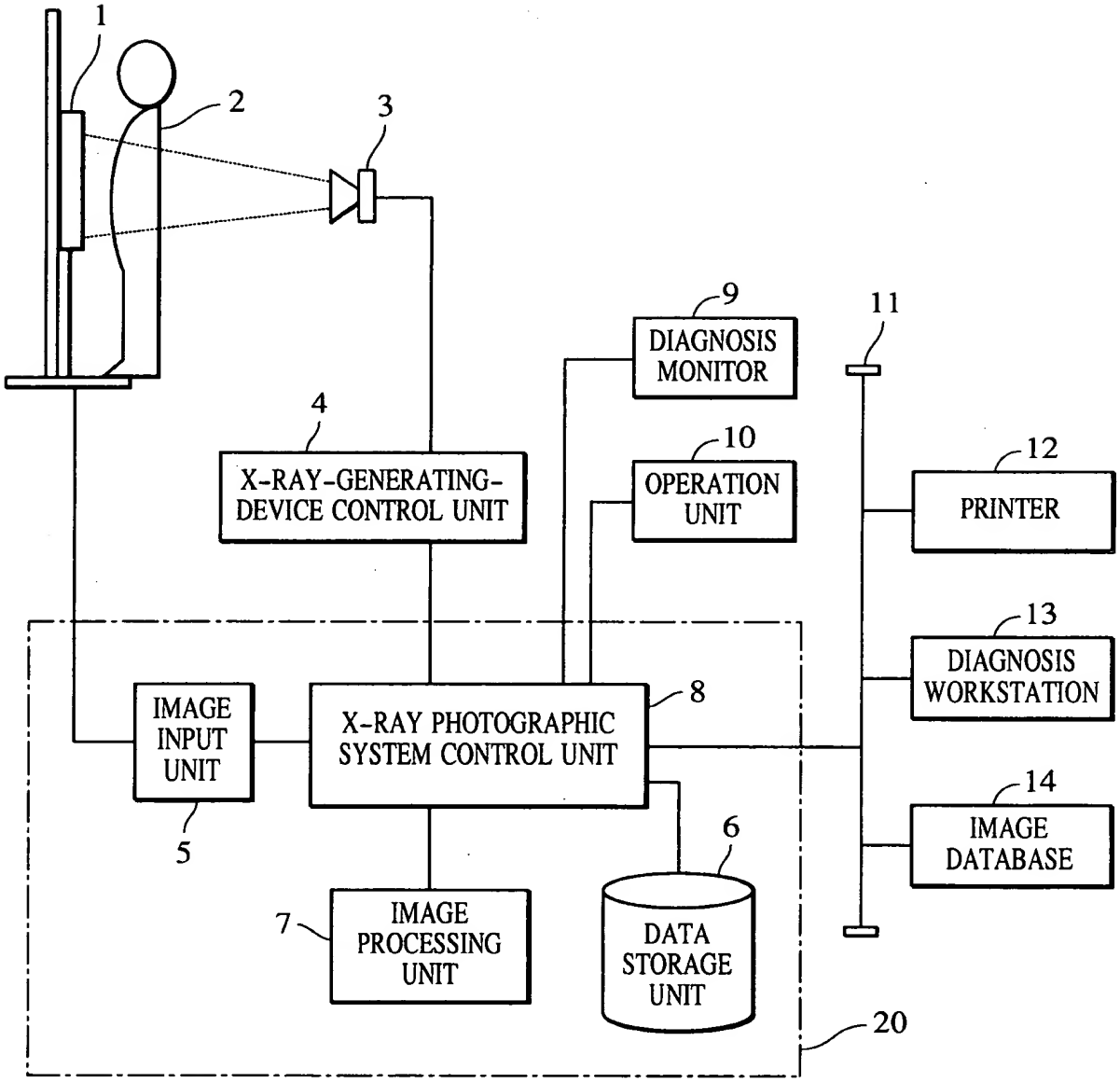

1
2
3
4
X-RAY-GENERATING-DEVICE CONTROL UNIT
9
DIAGNOSIS MONITOR
10
OPERATION UNIT
11
12
PRINTER
13
DIAGNOSIS WORKSTATION
14
IMAGE DATABASE
IMAGE INPUT UNIT
5
X-RAY PHOTOGRAPHIC SYSTEM CONTROL UNIT
8
6
7
IMAGE PROCESSING UNIT
DATA STORAGE UNIT
20

FIG. 11